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PRESS RELEASE

HM series perfectly adapted by Battenfeld to LIM processes

Cost-efficient liquid silicone processing

At the Chinaplas 2007 in Guangzhou, the Austrian machine manufacturer BATTENFELD Kunststoffmaschinen Ges.m.b.H., Kottlingbrunn, will demonstrate the HM series' efficiency in handling LIM (Liquid Injection Molding) processes. BATTENFELD will show the reliable combination of plasticizing systems specially adapted to this process with its proven machine concepts in hall 1B, booth 611.

Reliable, cost-efficient LSR processing

Liquid silicone rubber (LSR) is increasingly in demand for the production of elastic parts. To manufacture such parts, a process specially adapted to the material properties and appropriate production methods is required. This manufacturing process known as LIM (liquid injection molding) will be the main theme to be presented by Battenfeld at the Chinaplas from May 21 to 24, 2007: Battenfeld will demonstrate the production of a sealing ring for a dialysis machine on an HM 100/350 LIM with a 24-cavity mold. The machine will be equipped with a 2-component compounding and metering device and all optional extras required for this process, such as vacuum pumps, the special LSR machine package, etc. The sealing ring weighing 1.55 g will be manufactured and demolded via an integrated handling system within a cycle time of just 28 seconds.

Thanks to minimal lubrication requirements for the linear guides, the HM series is suitable for clean room applications, which is a significant advantage in the production of medical technology components. Its high performance level is achieved by fast, even clamping force buildup via two parallel clamping cylinders; its high precision is due to its exact platen parallelism

which stays within half of the EUROMAP tolerance margin. In spite of its compact design, the HM offers generous mold space to facilitate quick mold change and to allow for the installation of integrated handling systems as well.

Individual solutions thanks to modular concept

The HM series is based on the proven, modular machine concept developed by Battenfeld, providing the perfect solution for every LSR product. A great variety of machine concepts is available, depending on customers' requirements (horizontal or vertical configuration, rotary table, etc.), which can all be fitted with special LIM injection units. Automation components to match are also available from Battenfeld, to realize complete production lines from a single source.

The machines come with the new, optimized generation of UNILOG B6 control systems, which are even more user-friendly to operate. High-performance programs are provided for functions such as process documentation, control of complex production processes and extended network capacity.

Photographs:



At the Chinaplas, Battenfeld will manufacture a sealing ring for a dialysis machine with a 24-cavity mold on an HM 100/350 specially equipped for LIM processing.

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